

Name: \_\_\_\_\_

Date: \_\_\_\_\_

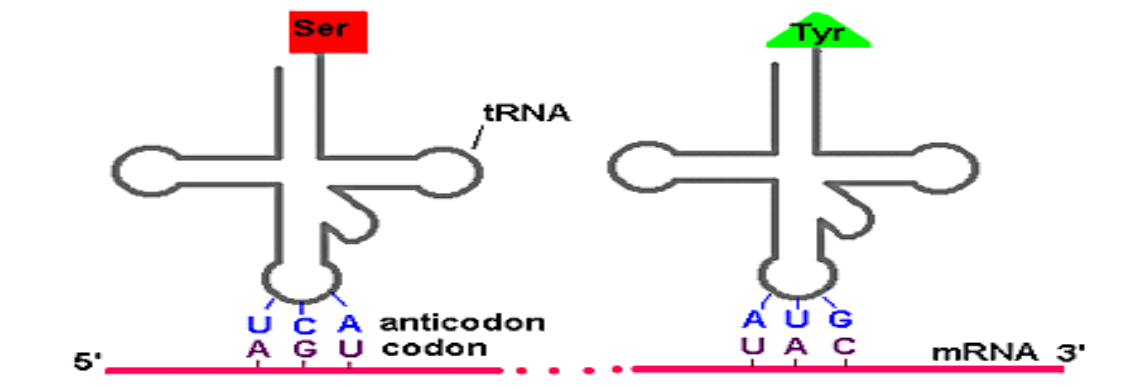
**Protein Synthesis: The Race to decode the message.**

**Procedure:**

1. You will be provided with a DNA molecule sequence.
2. On the provided piece of paper write out the mRNA sequence for the corresponding DNA molecule (transcribe).
3. Match the complementary tRNA anti-codon and the mRNA codon sequence. (translate)
4. Turn each anti-codon over to find the amino acids/words linked to each tRNA and build the sentence.

The sentence is:

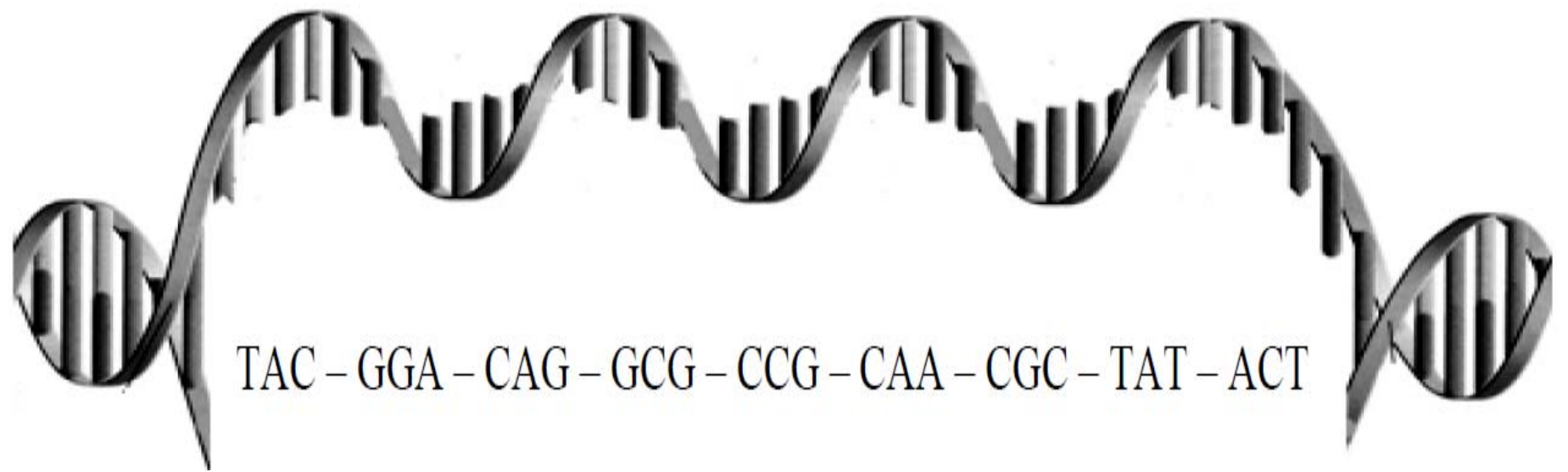
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2nd base in codon					
1st base in codon	U	C	A	G	
	U	Phe Phe Leu Leu	Ser Ser Ser Ser	Tyr Tyr STOP STOP	Cys Cys STOP Trp
	C	Leu Leu Leu Leu	Pro Pro Pro Pro	His His Gln Gln	Arg Arg Arg Arg
	A	Ile Ile Ile Met	Thr Thr Thr Thr	Asn Asn Lys Lys	Ser Ser Arg Arg
	G	Val Val Val Val	Ala Ala Ala Ala	Asp Asp Glu Glu	Gly Gly Gly Gly
3rd base in codon					
	U	C	A	G	
	C	A	G		
	A	G			
	G				

**The Genetic Code**

[www.accessexcellence.org/AB/GG/genetic.html](http://www.accessexcellence.org/AB/GG/genetic.html)



Anti-codon

CCG

Anti-codon

UAC

Anti-codon

ACU

Anti-codon

GGA

Anti-codon

CCG

Anti-codon

CGC

Anti-codon

CAA

Anti-codon

CAG

Anti-codon

UCU

Anti-codon

UAU

Amino Acid Methionine

START

Amino Acid Glycine

ABOUT

Amino Acid Proline

I

Amino Acid

STOP

Amino Acid Glycine

IN

Amino Acid Valine

LEARNING

Amino Acid Valine

ENJOY

Amino Acid Valine

Science

Amino Acid Isoleucine

SCHOOL

Amino Acid Arginine

STUDYING